

Determination of Public Land (Rangeland) Health for 65013 FALSEY DRAW

The Record of Decision (ROD) for the New Mexico Standards for Public Land Health and Guidelines for Livestock Grazing Management (dated January 2001) adopted three Standards for Public Land Health. These are (1) Upland Sites Standard, (2) Biotic Communities, Including Native, Threatened, Endangered, and Special Status Species Standard and (3) Riparian Sites Standard.

The ROD also established a process for the BLM Field Offices for implementation. Through a public participation process, the Roswell Field Office developed and adopted indicators to use in conjunction with existing monitoring data to assess these standards.

Field assessment worksheets and other available data that evaluate local indicators were completed for this allotment. Based on these assessments, it is my determination that public land within Falsey Draw, allotment #65013, meets the Upland Sites standard and (2) Biotic Communities, including Native, Threatened, Endangered, and Special Status Species standard. There are no public land Riparian areas on this allotment, therefore this standard was not addressed.

/s/ Eddie Bateson
Field Manager

8/8/2006
Date

Standards of Public Land Health

Evaluation of 65013 FALSEY DRAW Allotment

[10/15/2005]

The Roswell Field Office conducted rangeland health assessments at three (3) study sites within the Falsey Draw allotment #65013. The assessments evaluated Soil/Site Stability, Hydrologic Function and Biotic Integrity indicators within each study site location and surrounding vicinity. Existing monitoring data was incorporated into and in support of these field assessments. A summary of each assessment is attached and shown in the following table

Study Area or Assessment Area	UPLAND			BIOTIC			RIPARIAN		
	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet
65013-#1SANDHILLS-D259	X			X			N/A		
65013-DF42-C080	X			X			N/A		
65013-NORTHWEST-N004	X			X			N/A		

Twenty-two (22) indicators for Rangeland Health were evaluated for public land on Falsey Draw, allotment #65013. Ten (10) of these assessed soil site stability, 11 hydrologic function and 13 biotic integrity. These qualitative assessments in conjunction with previous data collected on three locations within this allotment were utilized to make rangeland health determinations.

Falsey Draw and Palla Ranch were recently combined to create one allotment. Those study areas/ecological sites were condensed into three key areas corresponding to three assessments which better represent public land parcels for evaluation.

Northwest and DF42 Pastures both are CP-2 Sandhill ecological sites. Northwest is a Jalmar-Roswell-Pyote soil association, moderately undulating encompassing 1,924 acres/779 hectares. It occurs on high terraces in the eastern part of area surveyed. Parts of this association formed in alluvial and eolian deposits and found in depressional areas. Slope is 0 to 15 percent on elevations 3,900 ft/1,182 m to 4,100 ft/1,242 m. Indicator ratings for this pasture were None to Slight and Slight to Moderate. These departures fell well within normal range of variation exhibiting characters for good ecological condition from soil, hydrological and biotic attributes. Interspace and under canopy ped samples remained intact using the soil site stability test. Some of those quantifiable measurements

such as litter amount estimations exceeded that expected. Only litter movement exhibited Moderate departure as shinnery oak (*Quercus havardii*) leaves were wind-driven up against obstacles and in depressional areas. A good mixture of sand bluestem (*Andropogon hallii*) to shinnery was observed with potential to be at optimum level. A small number of lesser prairie chicken (*Tympanuchus pallidicinctus*) were observed. Light grazing was occurring on little bluestem (*Schizachyrium scoparium*), another grass found in abundance. Special status species habitat's rating indicates proportions of desirable grass to shinnery are at a satisfactory ratio favoring adequate nesting cover for lesser prairie chickens.

DF Pasture, with a (FaA) Faskin fine sand, 0 to 2 percent slopes, well-drained on high terraces in eastern parts of area surveyed. It formed in alluvial and eolian deposits moderately deep to indurated caliche with Jalmar and Faskin soil intermingled. Pedestals/terraces and litter movement both rate Moderate. Some pedestaling is occurring in flow paths and exposed slopes. Litter has piled up against obstructions as shinnery oak leaves have fallen and have established ground cover in some areas as much as a 80 percent estimate with generous mulch layers. A fair amount of bluestem, little and sand is observed with a rise in dropseed (*Sporobolus* spp.) and sand sage (*Artemisia filifolia*). This pasture is lightly grazed. Special status species habitat's rating indicates proportions of desirable grass to shinnery are at a satisfactory ratio favoring adequate nesting cover for lesser prairie chickens. All other indicators evaluated indicated normal range of variability from established parameters.

#1 Sandhills Pasture is a CP-2 Deep Sand ecological site. This site has a Roswell-Jalmar-Pyote soil association similar to Northwest pasture. Pedestals/terraces rates Moderate. Some pedestaling is occurring in flow paths and exposed slopes. Threeawn (*Aristida* spp.) has increased here, thus a decrease in bluestem is noted. Wildlife and special status species habitat indicates Moderate departure with at least 1/2 of the habitat in less than satisfactory condition. Virtually no adequate nesting cover for LPC exists as proportions of grass to oak are in less than favorable ratios. Considering all variables, this site appears in good ecological condition with physical and biological crusts holding soil surface layers in place for erosion protection. Soil, hydrological and biotic indicators fell well within normal ranges of variability with exception those aforementioned.

It is the professional opinion of the Assessment Team that public land within Falsey Draw, allotment #65013 meets both Upland and Biotic standards. No Riparian areas exist within this allotment, therefore this standard was not addressed. See site notes and recommendations regarding further information for this assessment.

Recommendations: Continued current management is recommended for this allotment, ie, rotation, waters, and utilization levels. LPC habitat is fair to good for two pastures but could use some improvement. One pasture however lacks adequate cover and perhaps management from combining these two (65039/65013) will facilitate improved range health and enhance nesting habitat.

RFOs Upland and Biotic Standard Assessment Summary Worksheet			
SITE 65013-#1SANDHILLS-D259			
Legal Land Desc	SESE 33 0050S 0290E Meridian 23	Acreage	1600
Ecosite	070BY063NM DEEP SAND CP-2	Photo Taken	Y
Watershed	13060003210 RAILROAD MOUNTAIN		
Observers	ARTHUN/MOE	Observation Date	01/12/2006
County Soil Survey	NM644 CHAVES NORTH	Soil Var/Taxad	
Soil Map Unit	JRC	Soil Taxon Name	JALMAR
Texture Class	NM644 FS	Soil Phase	JALMAR- ROSWELL- PYOTE
Texture Modifier	NM644 FINE SAND		
Observed Avg Annual Precipitation		Observed Avg Growing Season Precipitation	
NOAA Annual Precipitation	15.87	NOAA Growing Season Precipitation	12.18
NOAA Avg Annual Precipitation	12.41	NOAA Avg Growing Season Precipitation	10.03
Disturbances and Animal Use:	No livestock at the moment.		

Part 2. Attributes and Indicators

		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills					X
Comments:						
S H	Water Flow Patterns				X	
Comments:						
S H	Pedestals and/or Terracettes			X		

Comments:						
S H	Bare Ground				X	
Comments:	50% is the current estimate.					
S H	Gullies					X
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas				X	
Comments:						
H	Litter Movement				X	
Comments:						
S H B	Soil Surface Resistance to Erosion				X	
Comments:						
S H B	Soil Surface Loss or Degradation				X	
Comments:						
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:						
S H B	Compaction Layer					X
Comments:						
B	Functional/Structural Groups				X	
Comments:	Some departure					
B	Plant Mortality/Decadence					X
Comments:						
H B	Litter Amount					X
Comments:	Current estimate is 50%.					
B	Annual Production				X	
Comments:	500 lbs/ac or kg/ha is the current estimate.					
B	Invasive Plants				X	
Comments:	Yucca					
B	Reproductive Capability of Perennial Plants					X
Comments:						
S	Physical/Chemical/Biological				X	

	Crusts					
Comments:	Physical-some bio-discontinuous					
B	Wildlife Habitat				X	
Comments:	Very little blustem - no good nest cover for LPC.					
B	Wildlife Populations				X	
Comments:	Good deer pop.					
B	Special Status Species Habitat			X		
Comments:	Good nesting cover lacking at this site					
B	Special Status Species Populations					X
Comments:	Good LPC pops.					

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	1	6	3
H	Hydrologic	0	0	1	6	4
B	Biotic	0	0	1	7	5

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	1	9

Hydrologic		0	1	10
Biotic		0	1	12
Site Notes: Interspace soil ped samples indicate an increase in organic matter. An increase in threeawn with very little sand bluestem. Site was gps'd				

RFOs Upland and Biotic Standard Assessment Summary Worksheet						
SITE 65013-DF42-C080						
Legal Land Desc	SWNW 12 0060S 0300E Meridian 23		Acreage		320	
Ecosite	070BY061NM SAND HILLS CP-2		Photo Taken		Y	
Watershed	13060003210 RAILROAD MOUNTAIN					
Observers	ARTHUN/MOE		Observation Date		01/12/2006	
County Soil Survey	NM644 CHAVES NORTH		Soil Var/Taxad			
Soil Map Unit	FaA		Soil Taxon Name		FASKIN	
Texture Class	NM644 LFS		Soil Phase		FASKIN	
Texture Modifier	NM644 FINE SAND					
Observed Avg Annual Precipitation			Observed Avg Growing Season Precipitation			
NOAA Annual Precipitation	19.55		NOAA Growing Season Precipitation		15.86	
NOAA Avg Annual Precipitation	15.73		NOAA Avg Growing Season Precipitation		13.34	
Disturbances and Animal Use:	No disturbances observed at the moment.					
Part 2. Attributes and Indicators						
		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills					X
Comments:						
S H	Water Flow Patterns				X	
Comments:						
S H	Pedestals and/or Terracettes			X		
Comments:	Some plants exposed					
S H	Bare Ground					X

Comments:	Current estimate is 20%.					
S H	Gullies					X
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas				X	
Comments:						
H	Litter Movement			X		
Comments:						
S H B	Soil Surface Resistance to Erosion				X	
Comments:						
S H B	Soil Surface Loss or Degradation				X	
Comments:						
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:						
S H B	Compaction Layer					X
Comments:						
B	Functional/Structural Groups				X	
Comments:						
B	Plant Mortality/Decadence					X
Comments:						
H B	Litter Amount					X
Comments:	70-80% is the current estimate.					
B	Annual Production				X	
Comments:	Matches long-term average at 550 lbs/ac or kg/ha.					
B	Invasive Plants					X
Comments:						
B	Reproductive Capability of Perennial Plants					X
Comments:						
S	Physical/Chemical/Biological Crusts				X	
Comments:	interspace-good o.m.					

B	Wildlife Habitat				X	
Comments:	Fair amount of bluestem, some lightly grazed (LPC).					
B	Wildlife Populations					X
Comments:	Good deer - pronghorn pops.					
B	Special Status Species Habitat				X	
Comments:	Good LPC nesting habitat - Larger clumps grass would improve					
B	Special Status Species Populations					X
Comments:	Good pops. LPC					

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	1	5	4
H	Hydrologic	0	0	2	4	5
B	Biotic	0	0	0	6	7

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	1	9
Hydrologic		0	2	9
Biotic		0	0	13

Site Notes: Fair amounts of bluestem-some lightly grazed. Sand bluestem is up along with an increase in dropseed.

RFOs Upland and Biotic Standard Assessment Summary Worksheet			
SITE 65013-NORTHWEST-N004			
Legal Land Desc	SENW 34 0050S 0290E Meridian 23	Acreage	1944
Ecosite	070BY061NM SAND HILLS CP-2	Photo Taken	Y
Watershed	13060003210 RAILROAD MOUNTAIN		
Observers	ARTHUN/MOE	Observation Date	01/12/2006
County Soil Survey	NM644 CHAVES NORTH	Soil Var/Taxad	
Soil Map Unit	JRC	Soil Taxon Name	JALMAR
Texture Class	NM644 FS	Soil Phase	JALMAR- ROSWELL- PYOTE
Texture Modifier	NM644 FINE SAND		
Observed Avg Annual Precipitation		Observed Avg Growing Season Precipitation	
NOAA Annual Precipitation	19.55	NOAA Growing Season Precipitation	15.86
NOAA Avg Annual Precipitation	15.73	NOAA Avg Growing Season Precipitation	13.34
Disturbances and Animal Use:			

Part 2. Attributes and Indicators

		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills					X
Comments:						
S H	Water Flow Patterns				X	
Comments:						
S H	Pedestals and/or Terracettes				X	

Comments:						
S H	Bare Ground				X	
Comments:	30% is the current estimate.					
S H	Gullies					X
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas				X	
Comments:						
H	Litter Movement			X		
Comments:	Shinnery leaves piled up against obstructions.					
S H B	Soil Surface Resistance to Erosion				X	
Comments:	Canopy and interspace ped samples held together.					
S H B	Soil Surface Loss or Degradation				X	
Comments:						
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff					X
Comments:						
S H B	Compaction Layer					X
Comments:						
B	Functional/Structural Groups				X	
Comments:						
B	Plant Mortality/Decadence					X
Comments:						
H B	Litter Amount					X
Comments:	70-80% is the current estimate.					
B	Annual Production			X		
Comments:	Current estimate is 650-700 lbs/ac or kg/ha.					
B	Invasive Plants					X
Comments:	Only invasives observed were yucca and snakeweed at very sparse levels.					
B	Reproductive Capability of Perennial Plants					X
Comments:						
S	Physical/Chemical/Biological				X	

	Crusts					
Comments:	Physical crusts observed holding soil in place.					
B	Wildlife Habitat				X	
Comments:	Nice mix of grass including bluestems and oak; needs more tall bluestem to be optimal.					
B	Wildlife Populations					X
Comments:	Some LPC (5) were spotted at the time of evaluation.					
B	Special Status Species Habitat				X	
Comments:	Need more tall bluestem for optimal LPC nesting					
B	Special Status Species Populations					X
Comments:	Good LPC pops.					
Part 3. Summary						
A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.						
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	0	7	3
H	Hydrologic	0	0	1	5	5
B	Biotic	0	0	1	5	7
B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the <i>Does not Meet</i> column, Moderate becomes <i>May Need More Info</i> , and Slight to Moderate and None to Slight merge to form the <i>Meets</i> columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.						
Attribute	Rationale	Does Not Meet		May Need More Info	Meets	

Soil		0	0	10
Hydrologic		0	1	10
Biotic		0	1	12
Site Notes: On this site, sand bluestem is more abundant. Some little bluestem is grazed along with blue grama. Site was gps'd to verify coordinates.				

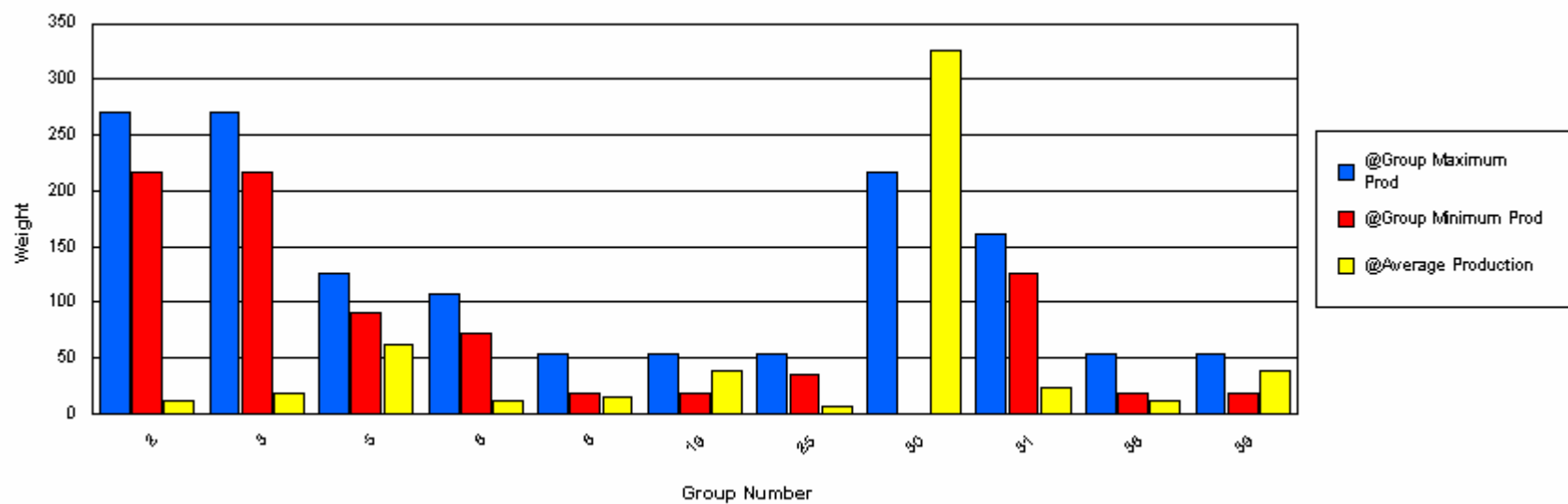
Functional / Structural Groups

Report Parameters

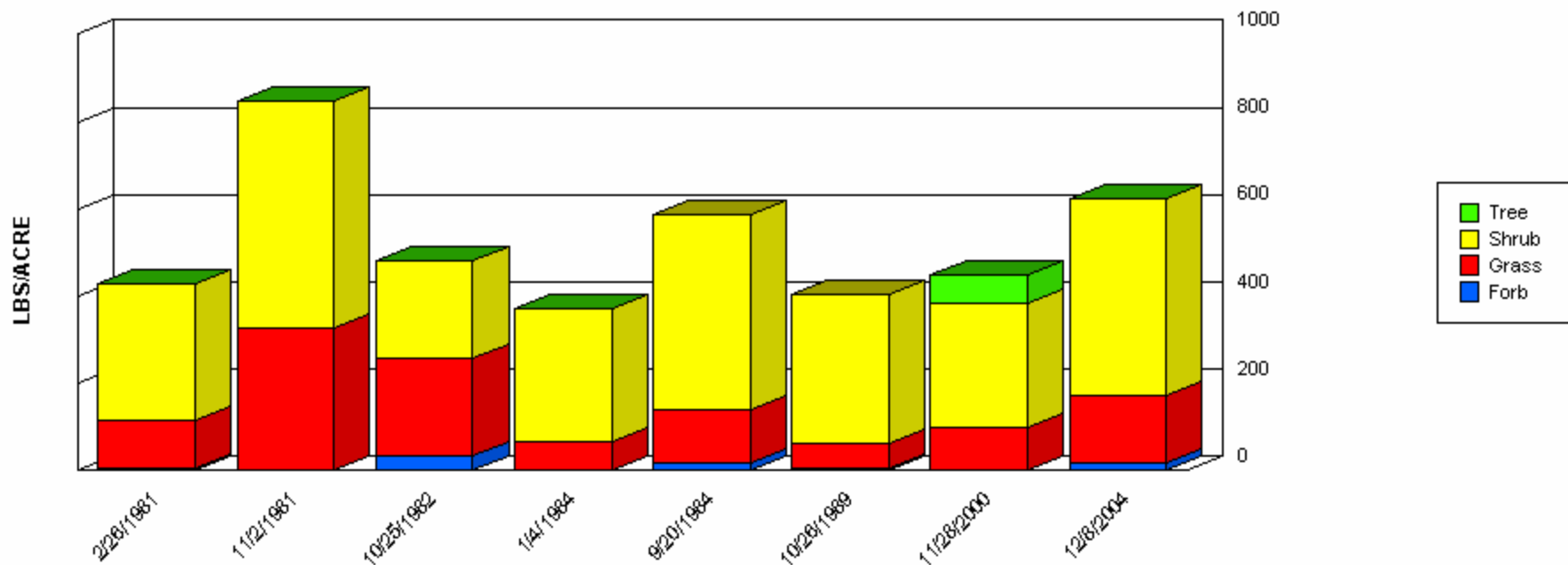
SITE NAME LIKE 65013-#1SANDHILLS-D259
 ON/AFTER 10/01/1980
 ON/BEFORE 09/30/2006
 MIN LBS TO GRAPH 5
 SELECTED ECOSITE 070BY063NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	ANHA	216	270	0.00	15.60	2.93	5.71
2	Grass	SCSC	216	270	0.00	74.40	11.69	24.04
3	Grass	SPCO4	216	270	0.00	12.00	3.33	4.85
3	Grass	SPCR	216	270	0.00	18.00	8.47	6.52
3	Grass	SPFL2	216	270	0.00	21.21	7.45	8.46
4	Grass	BOHI2	144	180	0.00	7.02	2.25	2.52
5	Grass	ARIST	90	126	0.00	99.84	39.10	34.07
5	Grass	ARLO3	90	126	0.00	45.60	22.80	22.80
6	Grass	PASPA2	72	108	0.00	22.00	5.50	9.53
6	Grass	PAST6	72	108	0.00	17.00	6.19	7.25
8	Grass	DICOC	18	54	4.00	33.88	13.88	9.31
8	Grass	PAHA	18	54	0.00	5.28	1.06	2.11
9	Grass	AAGG	0	36	0.00	1.33	0.22	0.50
9	Grass	CEPA7	0	36	0.00	0.33	0.04	0.11
9	Grass	MUSQ	0	36	0.00	6.97	2.39	2.83
11	Grass	BOCU	54	90	0.00	3.33	0.56	1.24
15	Grass	EROX	54	90	0.00	13.40	4.57	4.53
16	Grass	ERSE2	0	18	0.00	2.84	0.36	0.94
18	Grass	CAREX	0	18	0.00	1.34	0.19	0.47
19	Grass	AGSM	18	54	0.00	9.88	4.94	4.94
19	Grass	SPGI	18	54	0.00	156.78	31.36	62.71
19	Grass	STCO4	18	54	0.00	4.93	2.47	2.47
25	Forb	AMBRO	36	54	0.00	0.67	0.11	0.25
25	Forb	AMPS	36	54	0.00	32.24	5.82	11.03
26	Forb	AAFF	54	90	0.00	5.21	1.96	2.33
26	Forb	CALYL	54	90	0.00	1.68	0.21	0.56

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
26	Forb	PHYLA	54	90	0.00	2.34	0.29	0.77
27	Forb	HOGL2	18	54	0.00	0.78	0.39	0.39
27	Forb	PEPA8	18	54	0.00	1.96	0.98	0.98
27	Forb	PHACE	18	54	0.00	1.44	0.18	0.48
30	Shrub	QUHA3	0	216	198.61	517.36	325.96	108.63
31	Shrub	ARFI2	126	162	0.00	74.80	24.23	24.53
38	Tree	YUEL	18	54	0.00	66.67	11.39	24.73
39	Shrub	DALE2	18	54	0.00	1.41	0.18	0.47
39	Shrub	OPUNT	18	54	0.00	76.00	38.00	38.00



Production Lbs/Acre Trends

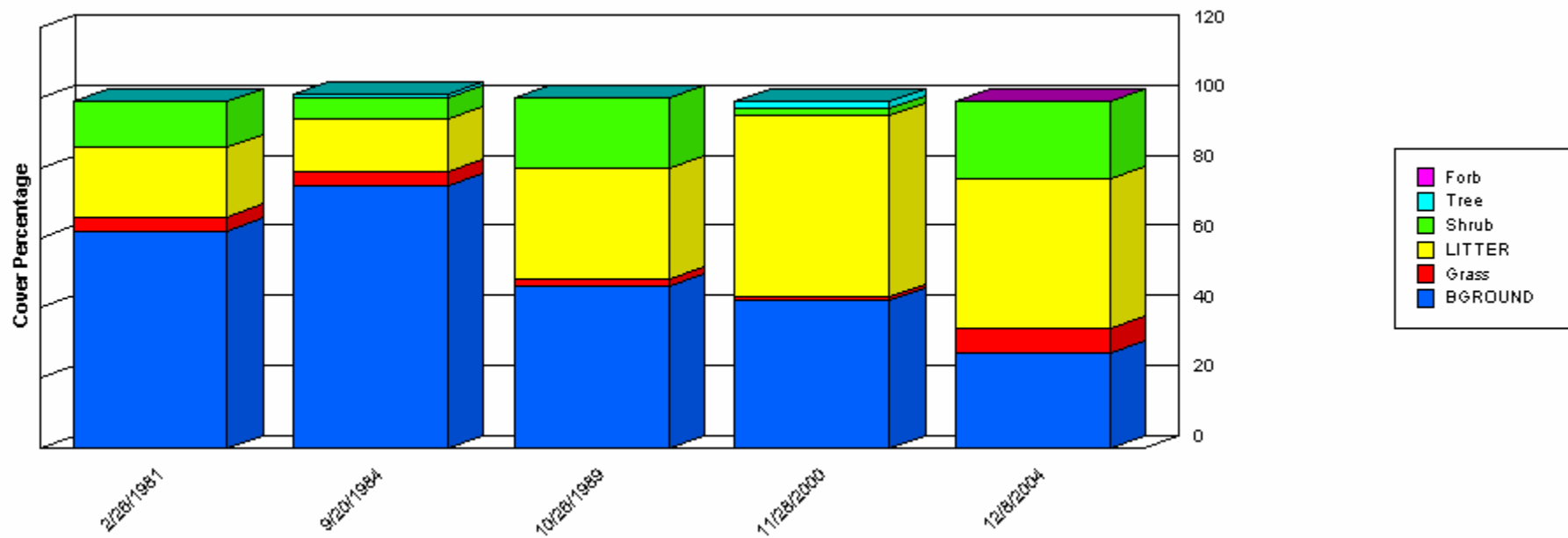


	2/26/1981	11/2/1981	10/25/1982	1/4/1984	9/20/1984	10/26/1989	11/28/2000	12/8/2004
Forb	5.88	3.36	32.24	0.00	19.74	5.16	2.74	19.38
Grass	109.26	325.00	225.88	66.00	121.65	56.92	94.94	154.33
Shrub	312.85	517.36	223.08	304.48	446.05	343.44	284.78	449.55
Tree	1.67	0.00	0.00	0.00	0.00	0.00	66.67	0.00
Total	429.66	845.72	481.20	370.48	587.43	405.52	449.13	623.26

Report Parameters

SITE NAME LIKE 65013-#1SANDHILLS-D259
 ON/AFTER 10/01/1980
 ON/BEFORE 09/30/2006

Ground Cover Trends



	2/26/1981	9/20/1984	10/26/1989	11/28/2000	12/8/2004
BGROUND	62.00	75.00	46.00	42.00	27.00
Forb	0.00	0.00	0.00	0.00	0.00
Grass	4.00	4.00	2.00	1.00	7.00
LITTER	20.00	15.00	32.00	52.00	43.00
Shrub	13.00	6.00	20.00	2.00	22.00
Tree	0.00	1.00	0.00	2.00	0.00
Total	99.00	101.00	100.00	99.00	99.00

Report Parameters

SITE NAME LIKE	65013-#1SANDHILLS-D259
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2006

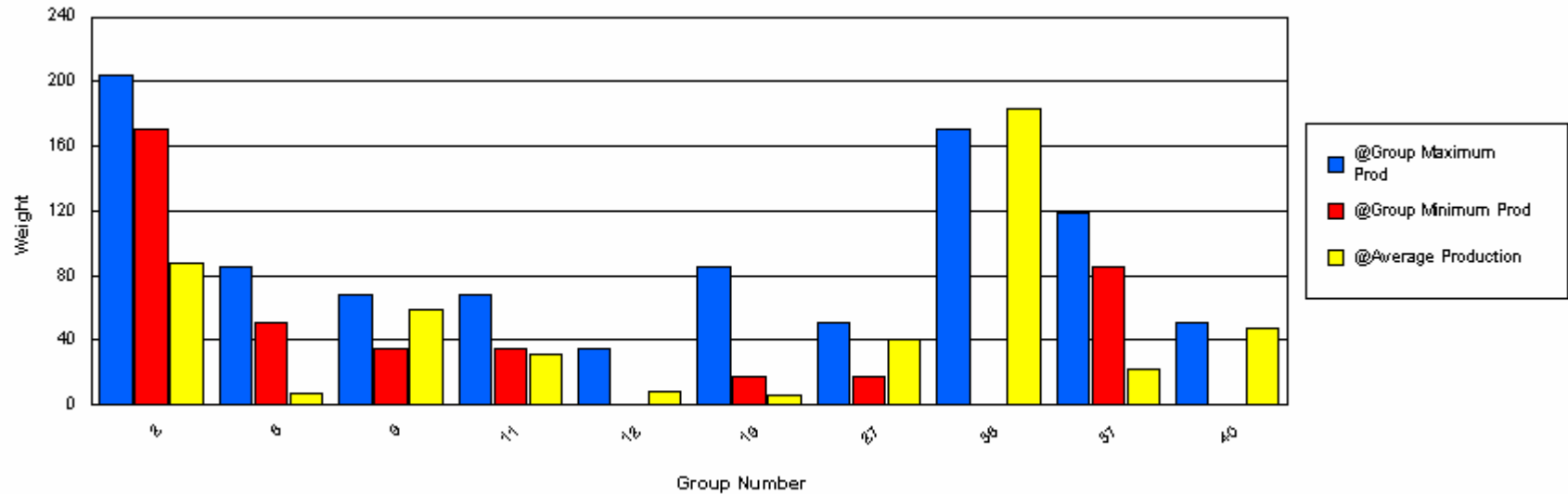
Functional / Structural Groups

Report Parameters

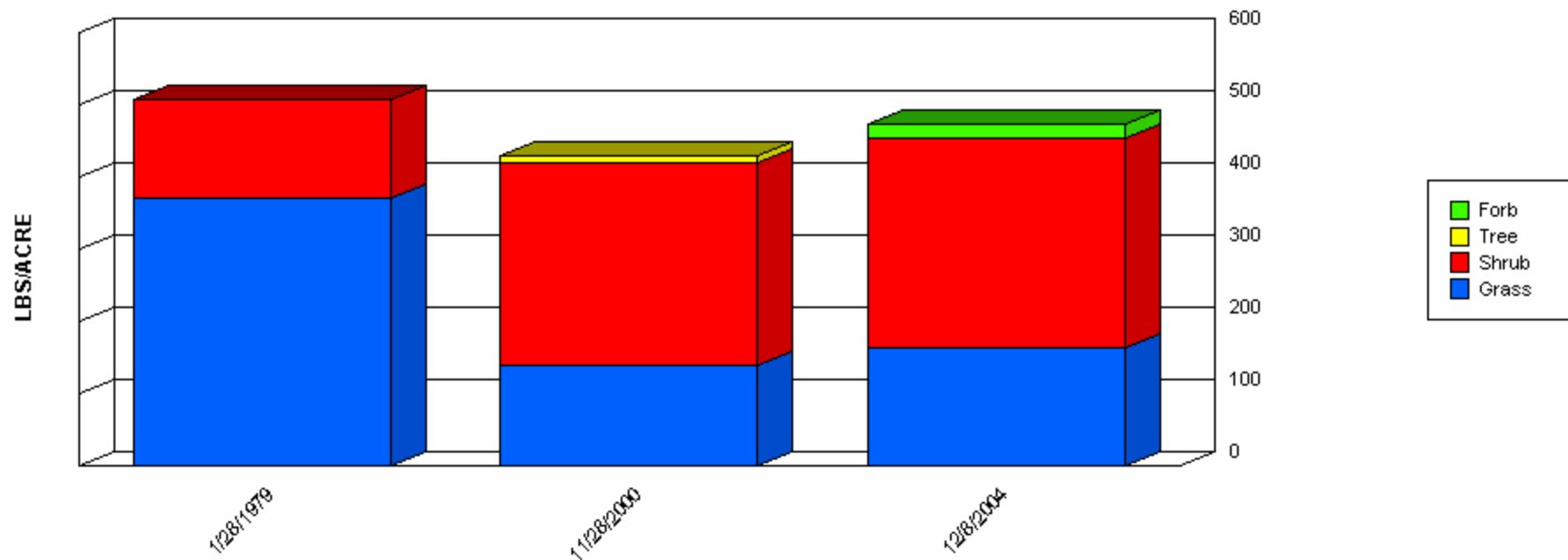
SITE NAME LIKE 65013-DF42-C080
 ON/AFTER 10/01/1978
 ON/BEFORE 09/30/2006
 MIN LBS TO GRAPH 5
 SELECTED ECOSITE 070BY061NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
2	Grass	SPCO4	170	204	0.00	207.00	69.00	97.58
2	Grass	SPCR	170	204	0.00	9.07	4.53	4.53
2	Grass	SPFL2	170	204	0.00	22.93	14.54	10.32
3	Grass	SCSC	136	170	0.00	7.28	3.50	2.98
6	Grass	PAST6	51	85	0.00	13.80	6.44	5.67
8	Grass	BOHI2	51	85	0.00	9.35	4.02	3.93
9	Grass	ARLO3	34	68	0.00	38.40	19.20	19.20
9	Grass	ARPU9	34	68	0.00	88.00	39.65	36.45
11	Grass	DICOC	34	68	16.72	55.89	30.87	17.74
12	Grass	MUSQ	0	34	6.00	9.20	7.60	1.60
14	Grass	EROX	17	85	0.00	4.80	2.40	2.40
18	Grass	BOCU	17	85	0.00	1.11	0.55	0.55
19	Grass	BOER4	17	85	0.00	11.90	6.07	4.86
27	Grass	AGSM	17	51	0.00	5.72	2.86	2.86
27	Grass	ANGE	17	51	0.00	7.70	3.85	3.85
27	Grass	SPGI	17	51	29.12	38.28	33.70	4.58
36	Shrub	QUHA3	0	170	97.50	281.60	183.28	75.68
37	Shrub	ARFI2	85	119	0.00	38.00	13.47	17.38
37	Shrub	ARFR4	85	119	0.00	16.61	8.31	8.31
39	Tree	YUEL	0	34	0.00	9.33	4.67	4.67
40	Shrub	OPUNT	0	51	0.00	93.33	46.67	46.67

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
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Production Lbs/Acre Trends

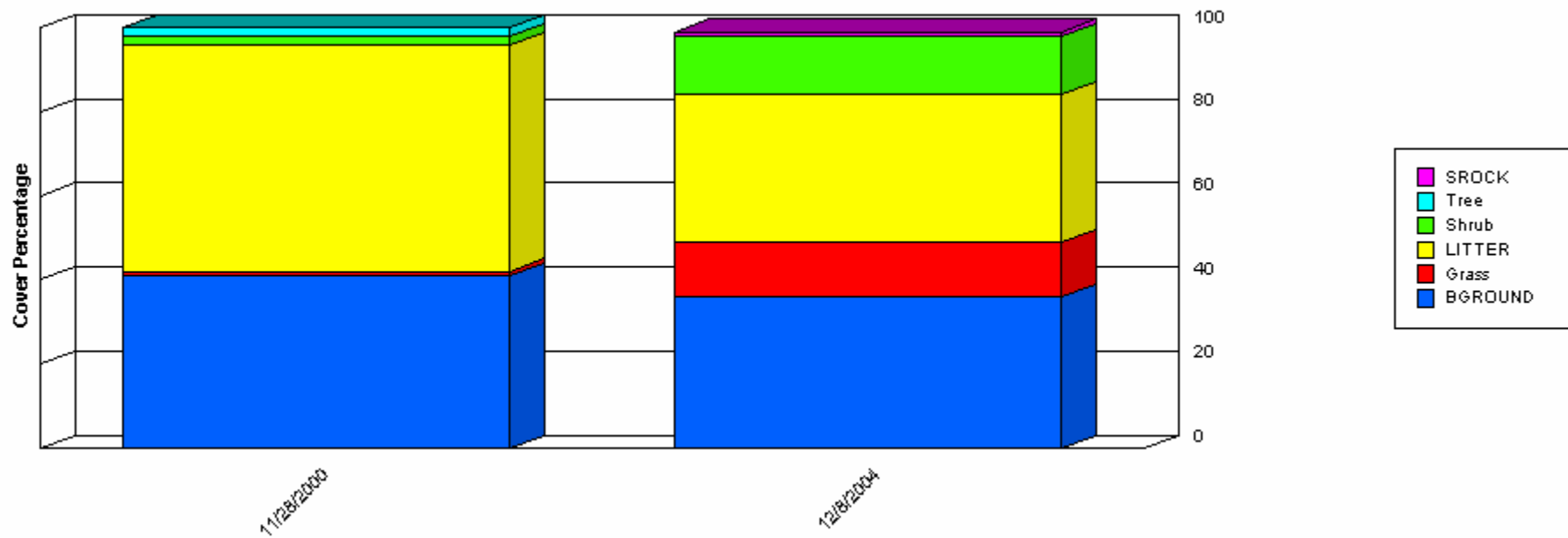


	1/28/1979	11/28/2000	12/8/2004
Forb	0.00	0.00	20.52
Grass	372.43	139.23	165.47
Shrub	135.50	280.69	288.00
Tree	0.00	9.33	0.00
Total	507.93	429.25	473.99

Report Parameters

SITE NAME LIKE 65013-DF42-C080
 ON/AFTER 10/01/1978
 ON/BEFORE 09/30/2006

Ground Cover Trends



	11/28/2000	12/8/2004
BGROUND	41.00	36.00
Grass	1.00	13.00
LITTER	54.00	35.00
Shrub	2.00	14.00
SROCK	0.00	1.00
Tree	2.00	0.00
Total	100.00	99.00

Report Parameters

SITE NAME LIKE	65013-DF42-C080
ON/AFTER	10/01/1978
ON/BEFORE	09/30/2006

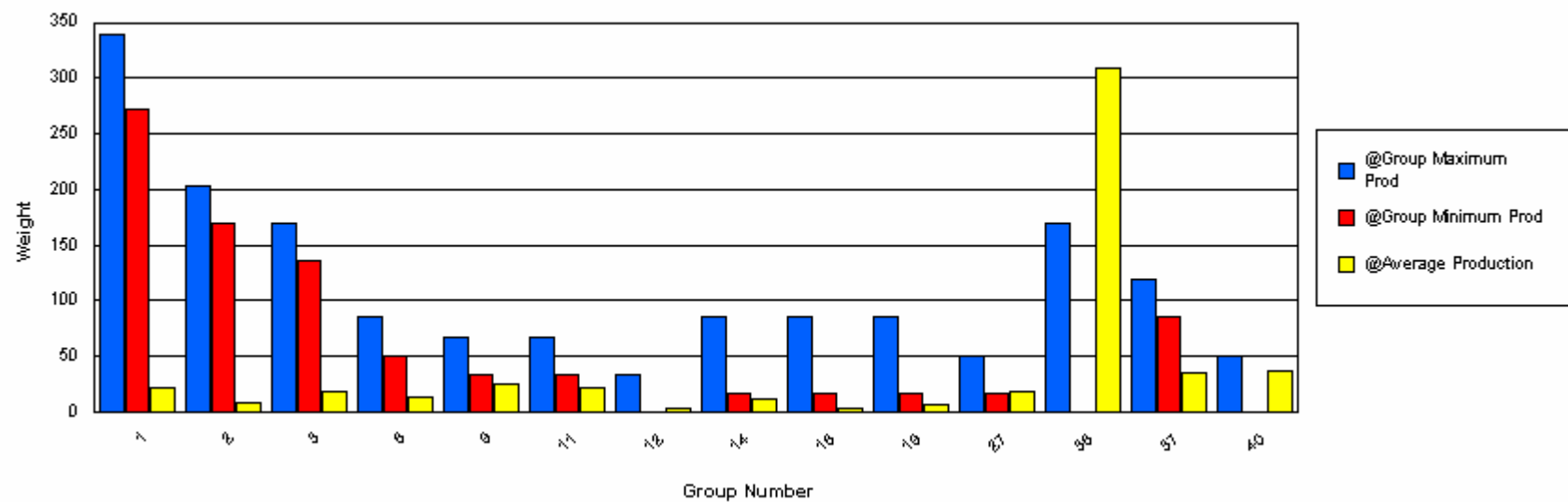
Functional / Structural Groups

Report Parameters

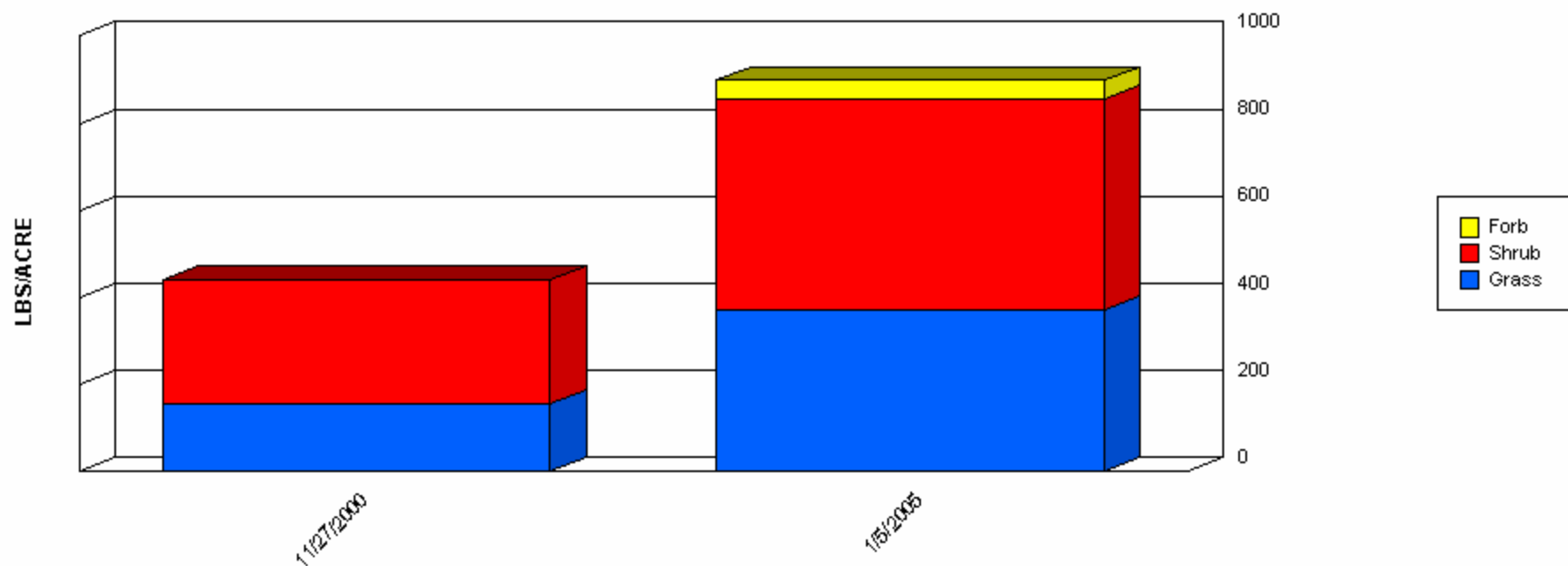
SITE NAME LIKE 65013-NORTHWEST-N004
 ON/AFTER 10/01/1999
 ON/BEFORE 09/30/2005
 MIN LBS TO GRAPH 1
 SELECTED ECOSITE 070BY061NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	ANHA	272	340	10.78	33.32	22.05	11.27
2	Grass	SPCR	170	204	0.00	15.47	7.73	7.73
3	Grass	ANSC2	136	170	3.41	34.83	19.12	15.71
8	Grass	BOHI2	51	85	12.96	13.49	13.23	0.27
9	Grass	ARLO3	34	68	0.00	49.20	24.60	24.60
11	Grass	LECO	34	68	8.11	28.44	18.27	10.17
11	Grass	PAHA	34	68	0.00	8.75	4.37	4.37
12	Grass	MUSQ	0	34	0.00	6.75	3.37	3.37
14	Grass	EROX	17	85	0.00	24.60	12.30	12.30
18	Grass	BOCU	17	85	1.90	5.53	3.72	1.82
19	Grass	BOER4	17	85	3.20	9.07	6.14	2.94
27	Grass	SPGI	17	51	4.40	31.80	18.10	13.70
36	Shrub	QUHA3	0	170	163.15	456.32	309.73	146.59
37	Shrub	ARFI2	85	119	25.39	46.77	36.08	10.69
40	Shrub	GUSA2	0	51	0.00	18.46	9.23	9.23
40	Shrub	OPUNT	0	51	0.00	54.67	27.33	27.33

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
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Production Lbs/Acre Trends

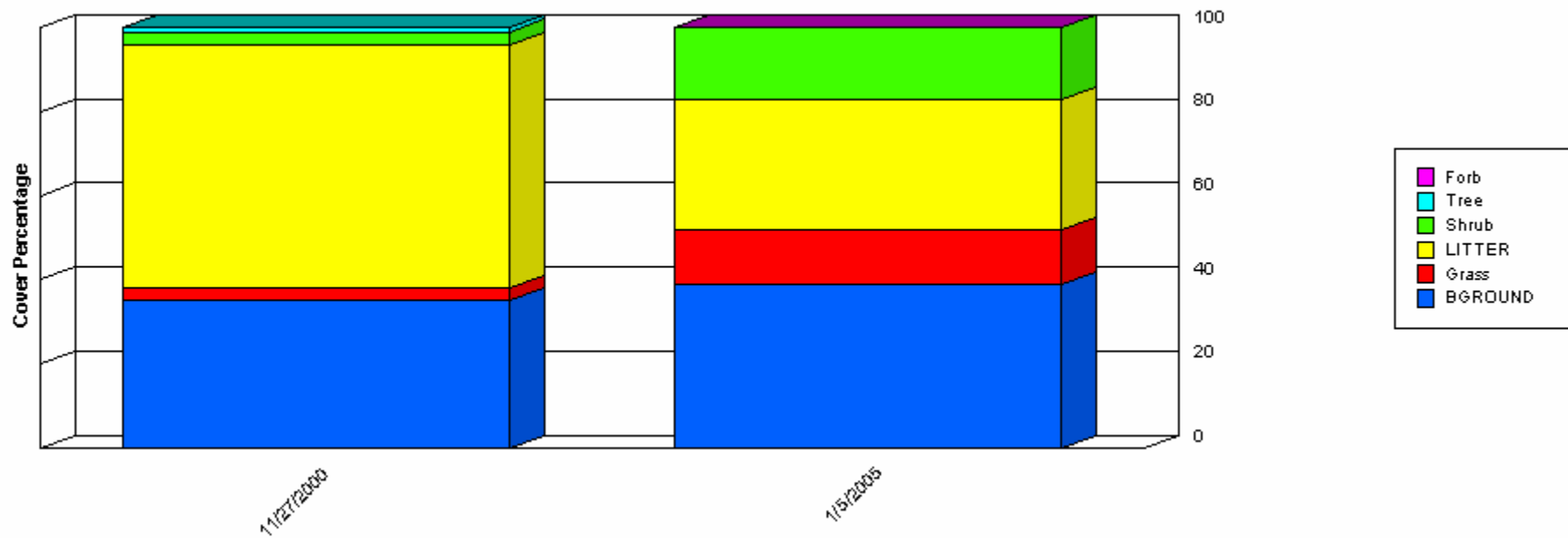


	11/27/2000	1/5/2005
Forb	0.00	42.11
Grass	157.83	373.18
Shrub	283.04	482.38
Total	440.87	897.67

Report Parameters

SITE NAME LIKE 65013-NORTHWEST-N004
 ON/AFTER 10/01/1999
 ON/BEFORE 09/30/2005

Ground Cover Trends



	11/27/2000	1/5/2005
BGROUND	35.00	39.00
Forb	0.00	0.00
Grass	3.00	13.00
LITTER	58.00	31.00
Shrub	3.00	17.00
Tree	1.00	0.00
Total	100.00	100.00

Report Parameters

SITE NAME LIKE	65013-NORTHWEST-N004
ON/AFTER	10/01/1999
ON/BEFORE	09/30/2005

Robel Pole Summary over Time Report

Report Parameters

SITE NAME LIKE 65013-NORTHWEST-N004

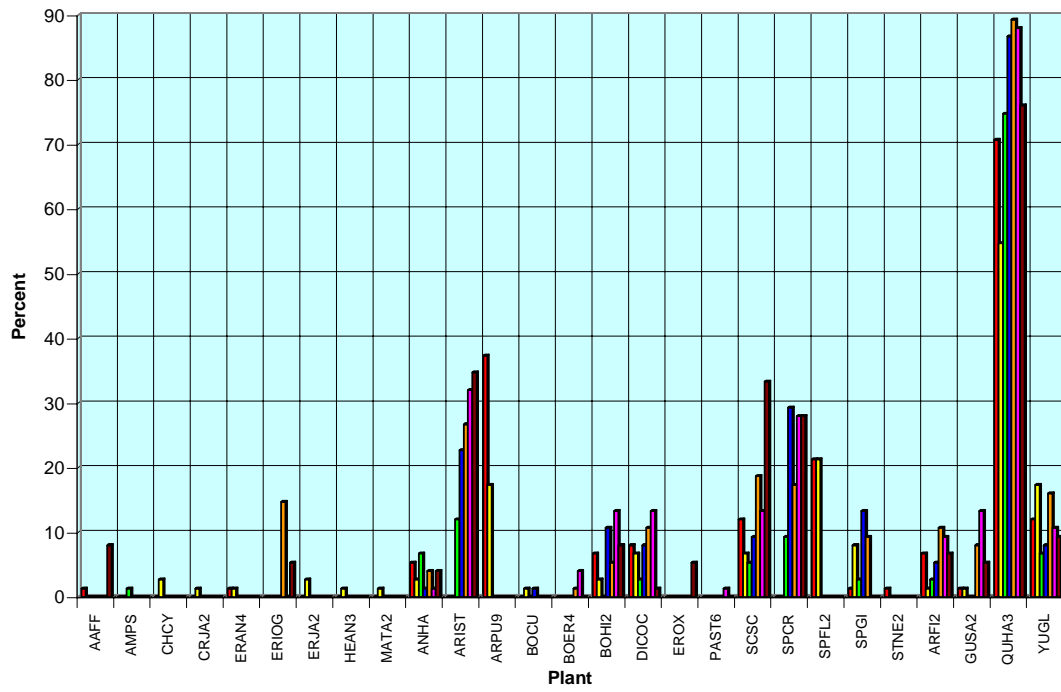
ON/AFTER 10/01/1998

ON/BEFORE 09/30/2006

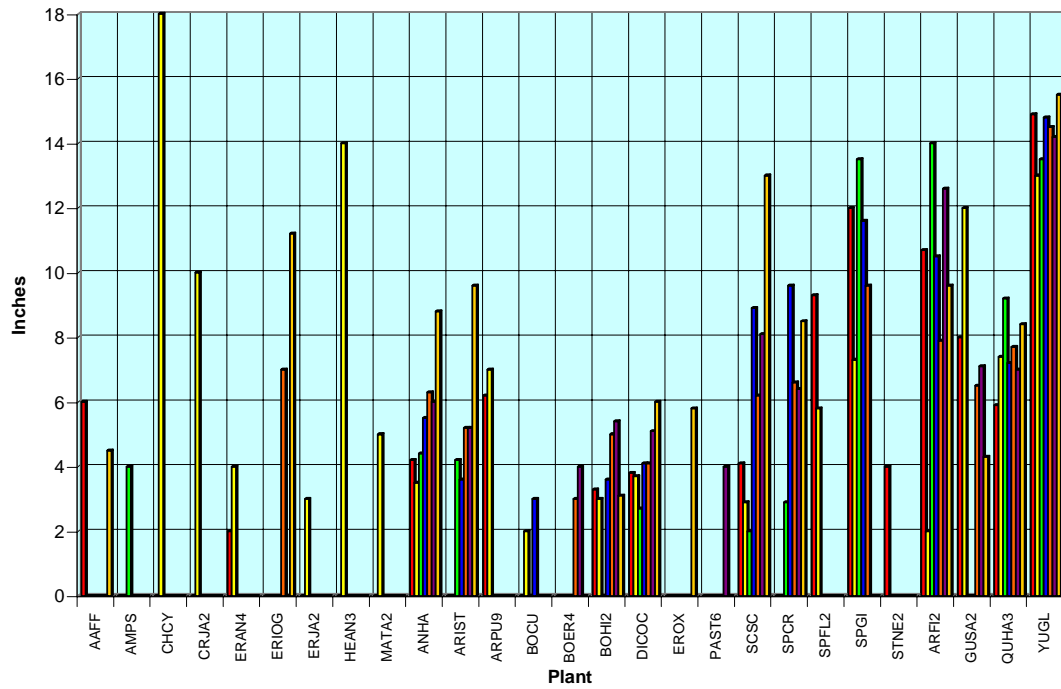
	Primary Obstructions	65013-NORTHWEST-N004	65013-NORTHWEST-N004	65013-NORTHWEST-N004	65013-NORTHWEST-N004	65013-NORTHWEST-N004	65013-NORTHWEST-N004	65013-NORTHWEST-N004
		01/19/2006	01/05/2005	02/22/2004	04/04/2003	02/27/2002	02/12/2001	12/28/1999
	Flag Stations	1	0	0	1	1	0	7
		% Hits	% Hits	% Hits	% Hits	% Hits	% Hits	% Hits
Nv	BGROUND	38.7 %	41.3 %	34.7 %	28.0 %	32.0 %	45.3 %	25.3 %
Nv	LITTER	38.7 %	38.7 %	52.0 %	58.7 %	52.0 %	49.3 %	54.7 %
G	ANHA	1.3 %	1.3 %	0.0 %	0.0 %	0.0 %	0.0 %	1.3 %
G	ARIST	0.0 %	0.0 %	2.7 %	1.3 %	4.0 %	0.0 %	2.7 %
G	ARPU9	0.0 %	2.7 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
G	BOER4	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	1.3 %	0.0 %
G	BOHI2	4.0 %	4.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
G	DICOC	5.3 %	1.3 %	1.3 %	2.7 %	0.0 %	0.0 %	0.0 %
G	SCSC	0.0 %	0.0 %	0.0 %	1.3 %	2.7 %	1.3 %	0.0 %
G	SPCR	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	2.7 %	6.7 %
G	SPGI	0.0 %	2.7 %	0.0 %	1.3 %	0.0 %	0.0 %	0.0 %
S	ARFI2	1.3 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
S	OPMA	0.0 %	0.0 %	1.3 %	0.0 %	0.0 %	0.0 %	0.0 %
S	OPUNT	0.0 %	0.0 %	0.0 %	0.0 %	1.3 %	0.0 %	0.0 %
S	QUHA3	9.3 %	5.3 %	8.0 %	6.7 %	6.7 %	0.0 %	9.3 %
S	YUGL	1.3 %	2.7 %	0.0 %	0.0 %	1.3 %	0.0 %	0.0 %

	Secondary Obstructions	65013- NORTHWEST- N004		65013- NORTHWEST- N004		65013- NORTHWEST- N004		65013- NORTHWEST- N004		65013- NORTHWEST- N004		65013- NORTHWEST- N004		65013- NORTHWEST- N004	
		01/19/2006		01/05/2005		02/22/2004		04/04/2003		02/27/2002		02/12/2001		12/28/1999	
		Percent	Avg Ht	Percent	Avg Ht	Percent	Avg Ht	Percent	Avg Ht	Percent	Avg Ht	Percent	Avg Ht	Percent	Avg Ht
F	AAFF	1.3	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	4.5
F	AMPS	0.0	0.0	0.0	0.0	1.3	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
F	CHCY	0.0	0.0	2.7	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
F	CRJA2	0.0	0.0	1.3	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
F	ERAN4	1.3	2.0	1.3	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
F	ERIOG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	7.0	0.0	0.0	5.3	11.2
F	ERJA2	0.0	0.0	2.7	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
F	HEAN3	0.0	0.0	1.3	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
F	MATA2	0.0	0.0	1.3	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G	ANHA	5.3	4.2	2.7	3.5	6.7	4.4	1.3	5.5	4.0	6.3	1.3	6.0	4.0	8.8
G	ARIST	0.0	0.0	0.0	0.0	12.0	4.2	22.7	3.6	26.7	5.2	32.0	5.2	34.7	9.6
G	ARPU9	37.3	6.2	17.3	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G	BOCU	0.0	0.0	1.3	2.0	0.0	0.0	1.3	3.0	0.0	0.0	0.0	0.0	0.0	0.0
G	BOER4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.0	4.0	4.0	0.0	0.0
G	BOHI2	6.7	3.3	2.7	3.0	0.0	0.0	10.7	3.6	5.3	5.0	13.3	5.4	8.0	3.1
G	DICOC	8.0	3.8	6.7	3.7	2.7	2.7	8.0	4.1	10.7	4.1	13.3	5.1	1.3	6.0
G	EROX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.8
G	PAST6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	4.0	0.0	0.0
G	SCSC	12.0	4.1	6.7	2.9	5.3	2.0	9.3	8.9	18.7	6.2	13.3	8.1	33.3	13.0
G	SPCR	0.0	0.0	0.0	0.0	9.3	2.9	29.3	9.6	17.3	6.6	28.0	6.4	28.0	8.5
G	SPFL2	21.3	9.3	21.3	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G	SPGI	1.3	12.0	8.0	7.3	2.7	13.5	13.3	11.6	9.3	9.6	0.0	0.0	0.0	0.0
G	STNE2	1.3	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	ARFI2	6.7	10.7	1.3	2.0	2.7	14.0	5.3	10.5	10.7	7.9	9.3	12.6	6.7	9.6
S	GUSA2	1.3	8.0	1.3	12.0	0.0	0.0	0.0	0.0	8.0	6.5	13.3	7.1	5.3	4.3
S	QUHA3	70.7	5.9	54.7	7.4	74.7	9.2	86.7	7.2	89.3	7.7	88.0	7.0	76.0	8.4
S	YUGL	12.0	14.9	17.3	13.0	6.7	13.5	8.0	14.8	16.0	14.5	10.7	14.2	9.3	15.5

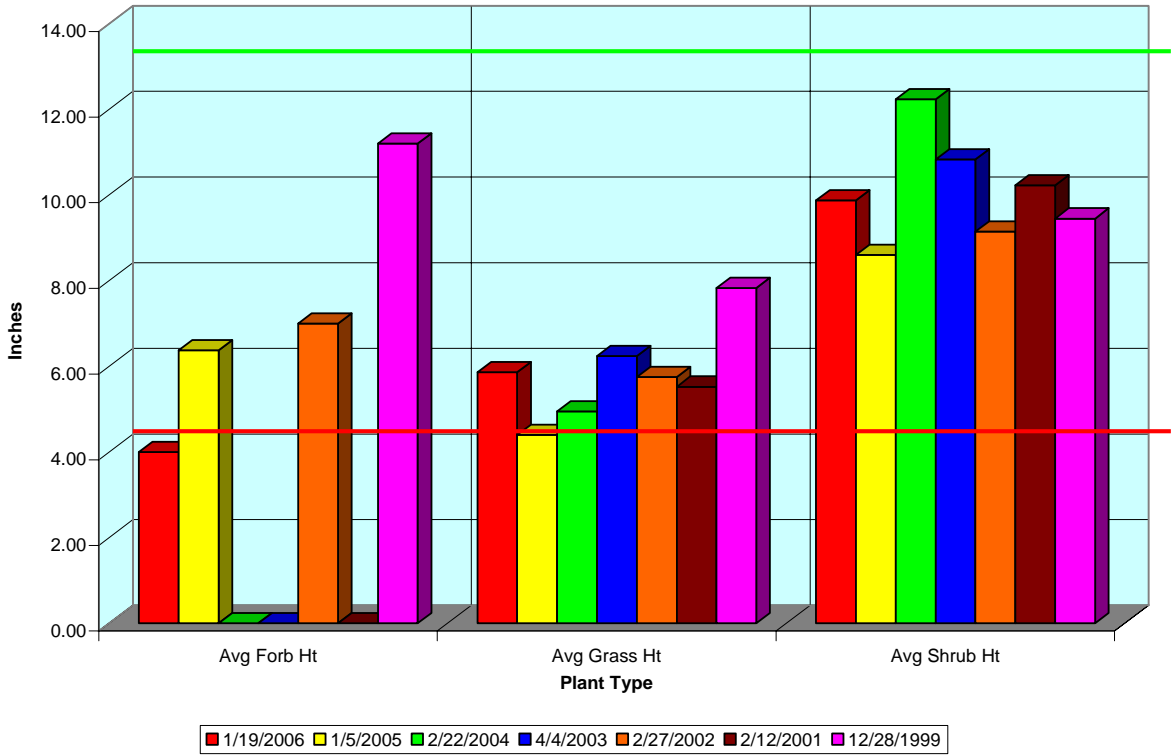
Plant Composition



Plant Average Visual Obstruction Height



Average Plant Type Visual Obstruction Height



Robel Pole Summary over Time Report

Report Parameters

SITE NAME LIKE 65013-#1SANDHILLS-D259

ON/AFTER 10/01/1998

ON/BEFORE 09/30/2006

	Primary Obstructions	65013-#1SANDHILLS-D259
		01/19/2006
	Flag Stations	0
		% Hits
Nv	BGROUND	52.0 %
Nv	LITTER	26.7 %
G	ARPU9	1.3 %
G	DICOC	4.0 %
S	ARFI2	2.7 %
S	QUHA3	12.0 %
S	YUGL	1.3 %

	Secondary Obstructions	65013-#1SANDHILLS-D259	
		01/19/2006	
		Percent	Avg Ht
G	ANHA	2.7	4.0
G	ARPU9	40.0	5.8
G	DICOC	5.3	2.8
G	SCSC	1.3	4.0
G	SPCR	2.7	1.0
G	SPFL2	1.3	1.0
G	SPGI	5.3	7.3
S	ARFI2	12.0	13.3
S	QUHA3	78.7	6.4
S	YUGL	10.7	15.5